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| 09/911,673 | 07/24/2001 | Taro Endo | 01430/LH | 3874 |

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EXAMINER

NGUYEN, KEVIN M

| ART UNIT | PAPER NUMBER |
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2674

DATE MAILED: 05/05/2004

16

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/911,673

Applicant(s)

ENDO ET AL.

Examiner

Kevin M. Nguyen

Art Unit

2674

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 05 February 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-23 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 22 and 23 is/are allowed.
- 6) ☒ Claim(s) 1-21 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 05 February 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 01/22/02.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Response to Amendment

1. Applicant's request for reconsideration of the rejection of the last Office action is persuasive and, therefore, the rejections of that action is withdrawn in view of the newly discovered reference(s) to Stedman et al (US 5,675,364). Rejections based on the newly cited reference(s) follow.

Drawings

2. The drawings were received on 02/05/2004. These drawings are acknowledged and approved.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1-5, 8, 10, 12 are rejected under 35 U.S.C. 102(b) as being anticipated by Stedman et al (newly cited, US 5,675,364).

As to claims 1, 5, Stedman teaches a host apparatus (a host system 11, fig. 2), a display apparatus (a display 78, fig. 2), a video signal and a power (a video data, fig. 3), a communication interface (a display connector 17, fig. 2), a storing unit (a main memory 36 and a nonvolatile memory 38, fig. 2);

More specifically, referring to FIG. 3, when a user cycles on/off switch 84 of display 78, an on/off switch cycled indication is sent from display 78 to host system 11.

Art Unit: 2674

When this on/off switch cycled indication is received, host system 11 interprets this indication to trigger wakeup circuit 82 by sending a DPMS awake signal to display 78. Wakeup circuit 82 then returns display 78 to the full power mode of operation and host system 11 restarts sending video data to display 78 (col. 5, lines 15-23).

Thus, the teaching of Stedman meets the claimed limitations.

As to claims 2, 8, Stedman teaches a display connector 77 includes a terminal for coupling the line for transmitting DDC data to DDC port 76. The DDC data provided by display 78 is received and held in DDC port 76 (col. 4, lines 61-64).

As to claim 3, 10, Stedman teaches the display 78 (fig. 2) comprising an on/off switch 84 (fig. 4, col. 4, lines 58-59) having a mode for operating the communication interface 17 for communication with the host apparatus 11.

As to claims 4, 12, Stedman teaches this information may be used by processor 12 to wake up display 78 from a display power saving mode of operation. More specifically, when the on/off switch 84 is cycled, an on/off cycle indication is provided to computer system 10. When the host system receives this on/off cycle indication, the host system causes display 78 to wake up (col. 5, lines 7-14).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Art Unit: 2674

4. Claims 6, 7, 9, 11, 13, 16, 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Stedman in view of Kim (newly cited, US 6,590,597).

As to claim 6, Stedman teaches all of the claimed limitations, except for on-screen display information means, and information superimposing means.

However, Kim teaches a related display system which includes the on-screen display information, and an information superimposing means (an on-screen display OSD IC 241, fig. 14).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of the invention to modify Stedman's wakeup circuit 82 including the OSD IC 241, in view of the teaching in the Kim's reference because this would inform a user of the status of computer operation as taught by Kim (col. 2, line 13).

5. As to claim 7, Stedman teaches a host apparatus (a host system 11, fig. 2), a display apparatus (a display 78, fig. 2), a video signal and a power (a video data, fig. 3), a communication interface (a display connector 17, fig. 2), a storing unit (a main memory 36 and a nonvolatile memory 38, fig. 2);

More specifically, referring to FIG. 3, when a user cycles on/off switch 84 of display 78, an on/off switch cycled indication is sent from display 78 to host system 11. When this on/off switch cycled indication is received, host system 11 interprets this indication to trigger wakeup circuit 82 by sending a DPMS awake signal to display 78. Wakeup circuit 82 then returns display 78 to the full power mode of operation and host system 11 restarts sending video data to display 78 (col. 5, lines 15-23).

Thus, the teaching of Stedman meets the claimed limitations, except for the on-screen display information, and information superimposing means.

However, Kim teaches a related display system which includes the on-screen display information, and an information superimposing means (an on-screen display OSD IC 241, fig. 14).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of the invention to modify Stedman's wakeup circuit 82 including the OSD IC 241, in view of the teaching in the Kim's reference because this would inform a user of the status of computer operation as taught by Kim (col. 2, line 13).

As to claim 9, Stedman teaches a display connector 77 includes a terminal for coupling the line for transmitting DDC data to DDC port 76. The DDC data provided by display 78 is received and held in DDC port 76 (col. 4, lines 61-64).

As to claim 11, Stedman teaches the display 78 (fig. 2) comprising an on/off switch 84 (fig. 4, col. 4, lines 58-59) having a mode for operating the communication interface 17 for communication with the host apparatus 11.

As to claim 13, Stedman teaches this information may be used by processor 12 to wake up display 78 from a display power saving mode of operation. More specifically, when the on/off switch 84 is cycled, an on/off cycle indication is provided to computer system 10. When the host system receives this on/off cycle indication, the host system causes display 78 to wake up (col. 5, lines 7-14).

As to claims 16, 17, Kim teaches OSD characters are displayed on the display monitor 4 (col. 7, lines 15-16). Thus, it is obvious to provide ASCII text data.

Art Unit: 2674

6. Claims 20, 21, 18, 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Stedman in view of Kim, and further in view of Rallison et al (previously cited, US 5,991,085).

As to claims 20, 21, Stedman and Kim teach all of the claimed limitations, except for interfacing a plurality of types of display apparatus and a plurality of types of host apparatus.

However, Rallison teaches interfacing a plurality of types of display apparatus HUD 102, monitor or television 515a (see figure 22).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of the invention to modify Stedman's connector 17 including interfacing a plurality of types of display apparatus, in view of the teaching in the Rallison's reference because this would provide a user to utilize different types of display devices.

As to claims 18, 19, Rallison teaches a plurality of types of host apparatus 510, 503, VCR, videodisk player, receiver, personal computer (see figure 25A).

7. Claims 14, 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Stedman in view of Kim, and further in view of Hayashi et al (newly cited, US 5,963,010).

As to claims 14, 15, Stedman and Kim teach all of the claimed limitations, except for said second storing means for indicating bit map information.

However, Hayashi teaches battery state display picture 141 (fig. 8).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of the invention to modify Stedman's display including the battery state display

picture 141, in view of the teaching in the Hayashi's reference because this would provide a total remaining operation time of the battery as taught by Hayashi (col. 2, lines 38-39).

Allowable Subject Matter

8. Claims 22 and 23 are allowed.
9. The following is a statement of reasons for the indication of allowable subject matter:

Stedman does not teach memory means for storing monitor request voltage information and monitor current consumption information as specific Extended Display Identification Data information on said micro display apparatus.

Response to Arguments

10. Applicant's arguments filed 02/05/2004 have been fully considered but they are not persuasive.

In response to applicant's argument that claims 1, 5, 7 recite "said display apparatus transmits said power consumption data stored in said storing unit to said host apparatus to said host apparatus via said communication interface, and host apparatus processes said received power consumption data and performs power control of said display system based on said processed power consumption data."

This argument is not persuasive because Stedman teaches more specifically, referring to FIG. 3, when a user cycles on/off switch 84 of display 78, an on/off switch cycled indication is sent from display 78 to host system 11. When this on/off switch cycled indication is received, host system 11 interprets this indication to trigger wakeup

Art Unit: 2674

circuit 82 by sending a DPMS awake signal to display 78. Wakeup circuit 82 then returns display 78 to the full power mode of operation and host system 11 restarts sending video data to display 78 (col. 5, lines 15-23).

For these reasons, the rejections based on Stedman have been maintained.

Conclusion

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Kevin M. Nguyen** whose telephone number is **703-305-6209**. The examiner can normally be reached on MON-THU from 9:00-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Richard A Hjerpe** can be reached on **703-305-4709**.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 872-9314 (for Technology Center 2600 only)

Hand-delivered response should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth floor (Receptionist).


Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

Application/Control Number: 09/911,673
Art Unit: 2674

Page 9

Kevin M. Nguyen
Patent Examiner
Art Unit 2674

KN
April 30, 2004


XIAO WU
PRIMARY EXAMINER